

MAMLOFE, S.M.; SINITSYNA, Z.T.

Current status of study of polymyxins and related antibiotics.
Antibiotiki 6 no.6:552-563 Je '61. (MIRA 15:1)
(ANTIBIOTICS)

BAYKINA, V.M.; KHOKHLOV, A.S.; MAMIOEL, S.M.; SINITSYNA, Z.T.; ANDRIANOVA,
V.T.; RYBAKOVA, R.K.; MAGORHAYA, T.N.

Counterflow distribution for detecting a new streptomycin-like
antibiotic produced by the LS-1 strain of *Str. griseus* (Act.
streptomycini). Antibiotiki 7 no.2:112-117 F '62. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.
(STREPTOMYCIN) (ACTINOMYCES)

BAYKINA, V.M. [deceased]; MAMIOFE, S.M. [deceased]; ROZANOVA, T.N.; SINITSYNA,
Z.I.; SLUGINA, M.D.; DZEGILENKO, N.B.

Comparative study of neomycin, colimycin and mycerin by the counter-
current distribution method. Antibiotiki 8 no.12:1059-1064 D '63.

(MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

GERMANOVA, K.I.; GONCHARSKAYA, T.Ya.; DELOVA, I.D.; IL'INSKAYA, S.A.;
MEL'NIKOVA, A.A.; ORESHNIKOVA, T.P.; RESHETOV, P.D.; RUDAYA, S.D.;
SINITSYNA, Z.T.; SOLOV'YEVA, N.K.; KHOKHLOV, A.S.

Components and antiviral properties of some streptothricin antibiotics. Antibiotiki 10 no.2:117-122 F '65.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov
i Institut khimii prirodnikh soyedineniy AN SSSR, Moskva.

SINITSYNA-IOFFE, A.L.

SHAMSHIKOVA, G.A. [deceased]; SINITSYNA-IOFFE, A.L.

Conditions and mechanism of glutathione synthesis in slices of the
rat liver. Vop.med.khim. 3:126-142 '61. (MIRA 11:4)

1. Laboratoriya khimii azhistogo obmena Instituta biologicheskoy i
meditsinskoy khimii AMN SSSR, Moskva.
(GLUTATHIONE) (LIVER)

SINIVEE, V.; LIPPMAA, E.

Weak perturbing radiofrequency field effects in nuclear
magnetic double resonance. Part 1. Izv. AN Est. SSR. Ser. fiz.-
mat. i tekhn. nauk 14 no. 2: 258-265 '65.

(MIRA 19:1)

1. Academy of Sciences of the Estonian S.S.R., Institute of
Cybernetics.

SINIVEE, V.; LIPMAA, E.

Effects of a weak perturbing radio-frequency field in double
nuclear magnetic resonance. Part 2. Izv. AN Est. SSR. Ser.
fiz.-mat. i tekhn. nauk 14 no. 4:564-568 '65 (MIRA 19:2)

1. Institut kibernetiki AN Estonskoy SSR. Submitted July 29,
1965.

ACC NR: AP7005318

SOURCE CODE: UR/0181/67/009/001/0021/0026

AUTHOR: Nesterova, N. N.; Siniy, I. G.; Pisarev, R. V.; Syrnikov, P. P.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)

TITLE: Infrared absorption spectrum of the antiferromagnets NaCoF_3 , KCoF_3 , and RbCoF_3

SOURCE: Fizika tverdogo tela, v. 9, no. 1, 1967, 21-26

TOPIC TAGS: antiferromagnetic material, ir spectrum, absorption spectrum, absorption edge, spin orbit coupling

ABSTRACT: The authors investigated the optical absorption of these antiferromagnets (with perovskite structure) in the region $750 - 2000 \text{ cm}^{-1}$ at 77 and 295K. One of the purposes of the investigation was to determine the influence of the exchange interaction and to obtain a clear cut spectrum. The single crystals were grown from the melt and the absorption spectra were measured with an IKS-21 spectrometer. All the compounds exhibited an absorption band near 1200 cm^{-1} and weak bands at the absorption edge of the lattice. The 1200 cm^{-1} band is identified with the $\Gamma_8 \rightarrow \Gamma_7$ transition between the split levels of the orbital triplet. When the temperature is decreased from 295 to 77K, an increase of 40 cm^{-1} in the half-width of this absorption band is observed in KCoF_3 , and decreases of 55 and 20 cm^{-1} are observed in the half-widths of the absorption bands in RbCoF_3 and NaCoF_3 . The results show that the spin-

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ACC NR: AP7005318

orbit interaction constant does not depend on the crystalline field. The authors thank G. A. Smolenskiy for continuous interest in the work and a discussion of the results and S. D. Prokhorova for many measurements. Orig. art. has: 4 figures, 2 formulas, and 2 tables.

SUB CODE: 20/

SUBM DATE: 16Apr66/

ORIG REF: 004/

OTH REF: 010

Card 2/2

ACC NR: AP7007629

SOURCE CODE: UR/0386/67/005/003/0096/0099

AUTHOR: Pisarev, R. V.; Siny, I. G.; Smolenskiy, G. A.

ORG: Institute of Semiconductors, Academy of Sciences, SSSR (Institut poluprovodnikov Akademii nauk SSSR)

TITLE: Anomalous dispersion of the Faraday effect in ferrimagnetic RbNiF_3

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 5, no. 3, 1967, 96-99

TOPIC TAGS: rubidium compound, Faraday effect, light dispersion, ferrimagnetic material, laser modulation, gas laser, ruby laser, light polarization

ABSTRACT: The authors investigated the Faraday effect in RbNiF_3 in the wavelength interval from 0.35 to 1.1 μ and observed a strong spectral dependence of the rotation of the plane of polarization of the light. The investigated sample was a plate 0.6 mm thick perpendicular to the hexagonal axis. The measurements were made in magnetic fields up to 16.5 kOe at 77 and 295K. The results show that the Faraday rotation reverses sign several times and its magnitude changes greatly in the investigated spectral interval. This complicated behavior is explained by examining the connection between the rotation and the absorption, and the experimentally observed strong sensitivity of the Faraday effect to the absorption lines and their fine structure. It is shown that this sensitivity can yield important additional information on the electronic structure of paramagnetic ions in crystals. In regions where there are no ab-

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ACC NR: AP7007629

sorption bands, the rotation is connected essentially with the ferrimagnetic moment of the crystal and therefore depends little on the wavelength. At 295K, the paramagnetic rotation of the plane of light polarization was 0.06 - 0.08 min/cm-Oe and depended little on the wavelength. The results show that the strong rotation of the plane of polarization can make $RbNiF_3$ useful for the modulation of light at the wavelengths of argon and neodymium lasers, where it is transparent, and also for helium-neon and ruby lasers, where its absorption is slight. It can also be used effectively at infrared wavelengths up to 11 μ , at which it is transparent. The authors thank P. P. Syraikov for growing the single crystals. Orig. art. has: 2 figures.

SUB CODE: 20/

SUBM DATE: 11Nov66/

ORIG REF: 002/

OTH REF: 005

Card 2/2

L 7653-66 EWT(d)/EPA(s)-2/EWT(m)/EPF(n)-2/EWP(c)/EWP(v)/T/EWP(t)/EWP(k)/
EWP(b)/EWP(l)/ETC(m) JD/WJ/JG

ACC NR: AP5025063

SOURCE CODE: UR/0286/65/000/016/0108/0108

AUTHORS: Belinskiy, B. A.; Siniy, L. L.

ORG: none

TITLE: Impulse ultrasonic apparatus for investigating porous media. Class 42,
No. 174016 [announced by Moscow Oblast Teachers Institute im. N. K. Krupskaya
(Moskovskiy pedagogicheskiy institut)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 108

TOPIC TAGS: ultrasonic equipment, ultrasonics, ultrasonic wave propagation,
ultrasound absorption

ABSTRACT: This Author Certificate presents an impulse ultrasonic apparatus for
investigating porous media (see Fig. 1). The apparatus contains a generator of
electrical video-impulses, a receiver, recording equipment, and a measuring cham-
ber with the investigated medium with two piezoconverters and with ultrasound
retardation lines. To eliminate the influence of the tube wave on the measurement
readings and to facilitate measuring the amplitude-phase characteristics of the
investigated media, the ultrasound retardation lines are provided with sound

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UDC: 534-8.002.56

L 7653-66

ACC NR: AP5025063

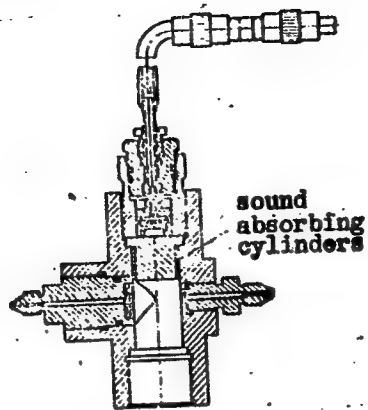


Fig. 1.

absorbing cylinders, while the recording equipment is connected in parallel to the narrow-band output filter of the receiver. Orig. art. has: 1 figure.

SUB CODE: 20 / SUBM DATE: 12Oct64

Card 2 ¹¹/₂

Науч. тех. сб. 1965.

Investigating the saturation of a fluid gas system in a porous medium using the ultrasonic method. Nauch. tekhn. sbor. po dok. (MIRA 18:9)
refid no. 27161-66 1965.

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy.

SINII, L.I.; BELINSKIY, B.A.; NOZDREV, V.F.

Methods for determining the phase composition of gas-liquid
systems in a porous medium. Zav.lab. 31 no.4:467-468 '65.
(MIRA 19:12)

1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K.
Krupskoy.

SINIY, L.I.; BELINSKIY, B.A.

Possibility of applying ultrasonic waves for studying the sorption
of gases in porous media. Zhur. fiz. khim. 39 no.5:1263-1265
My '65. (MIRA 18:8)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K.
Krupskoy.

SINIYCHUK, Kh.V.; VENTSACK, Ye.M.

Isimmunization to leucocytes in pregnancy. Probl. gemat. i perel.
krovi no.3:21-24 '65. (MIRA 18:10)

1. Gematologicheskij otdel (zav. - dotsent S.M.Martynov) L'vovskogo
nauchno-issledovatel'skogo instituta perelivaniya krovi (direktor -
dotsent D.G.Petrov; nauchnyy rukovoditel' - prof. R.M.Glants).

SINKA, E.

Analysis of the causes of increasing morbidity of interdigital
mycosis of the feet in a rubber plant. Cesk. dermat. 40 no.2:
104-109 Apr'65

1. Dermatovenerologická katedra Lékařské fakulty Univerzity
Komenského v Bratislavě (vedoucí: prof. dr. L. Chmel. DrSc.).

SINKA, J.

GENERAL

PERIODICALS: VESTIS No. 1. 1958

SINKA, J. Germanium rectifiers in the electric-supply system for railroad passenger cars. In Russian. p. 121

Monthly list of East European Accessions(EEAI) IC, Vol. 8, No. 2,
February 1950, Unclass.

SINKA, J.

Second All-Union Conference on Power Supply of Means of Transport.
Vestis Latv ak no.3:147-149 '61. (EEAI 10:9)

(Electric power)

SINKA, Janos

Some problems related to the private architectural designing
activities. Epites szemle 5 no.3:69-71 '61.

SINKA, Jozsef

Survey of existing artificial satellites. Fiz szemle 10 no.2:42-52
F '60.

1. "Termesztudományi Kozlony" szerkesztosege.

SINKA, J.

Second All-Union Conference on Supplying Electric Power of the Means
of Transportation. Vestis Latv ak no.3:147-149 '61.

H/016/61/011/002/001/001
B122/B227

AUTHOR: Sinka, József

TITLE: New artificial satellites in 1960

PERIODICAL: Fizikai Szemle, v. 11, no. 2, 1961, 41-47

TEXT: The author resumes and lists in a table the achievements of space exploration in 1961, when the USA made extensive space probings with artificial satellites for military purposes. More precise tracking methods were developed, which facilitated the observation of finer details of the irregularities of motion. Such data are tabulated for 4 simple and 2 twin satellites as well as for 5 components separated from them on their orbital path. The author is of the opinion that the study of the motion of missiles serving purely scientific purposes would have been helpful in a more precise detection of its irregularities. The experiments have led to new possibilities. The problem of re-entry of the satellite into the atmosphere was solved. A meteorological satellite was developed for the study of extensive phenomena of the atmosphere. Satellites of the Transit type, serving Doppler (Doppler velocity and position) purposes and for the detection of airspace

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New artificial satellites in 1960

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B122/B227

control systems of other countries, might have many peaceful uses too, such as rescue from ships in distress, etc. Soviet rocket technicians were engaged in other problems: the increase of payloads and the improvement of rocket control in the preparation of space probes and of manned space travel. Pioneer VI failed to put a satellite in a circumlunar orbit. The three principal tasks of space navigation are: 1) Circumlunar flight (Lunik III); 2) artificial moon satellite; 3) hitting the moon. An artificial moon satellite can be put in orbit only if the areal velocity of the missile arriving at the lunar space can be decreased sufficiently by rocket control for its capture. The author hopes that this will be achieved before long, because this leads to the problem of landing safely on the moon. Data on the weight, equipment, path, and achievements of 15 American and 3 Soviet satellites are listed in a table. On January 1, 1961, 20 artificial satellites were on orbital path, 3 of them about the sun; one of the latter was Lunik I. A fourth table gives the total number and payload of artificial satellites launched since 1957. Of a total number of 73, 9 were Soviet with a total payload of 20,153 kg. It is not stated how many of them were successful. In the Soviet Union experiments are being made for the prepara-

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New artificial satellites in 1960

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B122/B227

tion of manned space travel. Photos with diagrams of the vital functions are presented, illustrating the effect of explosive decompression on human beings. There are 8 figures and 4 tables.

ASSOCIATION: Természettudományi Közöny Szerkesztősege (Természettudományi Közöny, Editorial Board)

Card 3/3

SINKA, J^ozsef

John H. Glenn. The first American space travel. Tern tud kozl
5 (93) no.3:108 Mr '62.

SINKA, Jozsef, tanar

Astronomy and astrology. Term tud kozl 6 no.2:56-58 F '62

1. A Termesztudományi Kozló szerkesztoje, Budapest

SINKA, Jozsef

The "Cosmos" artificial satellites. Term tud kozl 6 no.5:217-218 My '62.

1. Muszaki es Termeszettudomanyi Egyesultek Szovetsege
Kozponti Asztronautikai Szakosztalyanak titkara, Budapest, es
"Termeszettudomanyi Kozlony" szerkesztoje.

SINKA, Jozsef

Astronomical research in the stratosphere. I. (To be contd.)
Elet tud 17 no.50:1571-1573 16 D '62.

ECHTER, Tibor, dr., repuloorvos; SINKA, Jozsef, tanar

Vostok-5 and Vostok-6. Term tud kozl 7 no.7:289-292 JI '63.

SINKA, Jozsef

Is there a development of galaxies. Term tud kozl 7 no.11:
482-486 N'63.

SINKA, Jozsef

Astronomical research beyond the atmosphere. Pt. 2. Elet tud 18
no.32:1003-1005 11 Ag '63.

SINKA, Jozsef

Astronomical research in the stratosphere.Pt.3. Elet tud 18 no.42:
1319-1321 20 0 '63.

SINKA, Jozsef

The moon is the next target. Technika 8 no.1:8-9 Ja '64.

SINKA, Jozsef

Galilei as astronomer. Term tud kozl 8 no.4:146-150 Ap '64.

1. Secretary, Central Division of Astronautics, Federation of
Technical and Scientific Associations, Budapest.

SINKA, Jozsef

Remark about Istvan Duchnowszky's article. Term tud
kozl 8 no.5:233 My'64.

SINKA, Jozsef

Cosmic radiation research by means of artificial satellites. Fiz
szemle 9 no.10:304-308 0 '59.

1. "Termesztudományi Kozlony" szerkesztosege.

SINKA, Jozsef

The fifth year of astronautics, 1957-1962. Fiz szemle 12 no.10:
293-303 0 '62.

1. "Természettudományi Kozlony" szerkesztosege.

SINKA, Jozsef, tanar (Budapest)

Lifelike artificial sky: the planetarium. Term tud kozl
4 no.7:304-307 J1 '60.

1. Editor, "Termeszettudomanyi Kozlony."

HEGYI, E.; SINKA, L.

Contribution to a nosological classification of subcorneal
pustulous dermatosis (Sneddon-Wilkinson). Cesk. dermat. 29
no.3:176-180 My'64

1. Dermatovenerologická klinika Lékařské fakulty UK [Uni-
versity Komenského) v Bratislavě; přednosta: prof. dr. L.
Chmel.

SENKA, L.

Current status of candidiasis therapy. Bratisl. lek. listy 45
no.4:229-236 28 F'65.

1. Dermatovenerologická klinika Lekárskej fakulty Univerzity
Komenského v Bratislave (vedúci člen koresp. Slovenskej
akadémie vied L. Chmel, DrSc.).

SINKA, L.; HLAVATY, P.

Analysis and follow-up study of patients with urticaria from the material of a Dermatological Clinic in Bratislava, 1959-63. Cesk. dermat. 40 no.4:217-224 Ag '65.

1. Dermato-venerologická katedra Lekárskej fakulty Univerzity Komenského v Bratislave (veduci prof. dr. L. Chmel, DrSc.).

JOVANOVIĆ, Velimir, inž.; SINKA, Milan, inž.

Optimum code of a Serbian printed text. Telekomunikacije 13
no.1/2:7-12 Ja-Ap '64.

Uncl., R.

Beckov castle no. 350

ČERNÁ SLAVENSKÁ (Poverenie do prav. Rinditelstvo pre castovny ruch)
Bratislava Czechoslovakia

Vol. 36, no. 9, Sept. 1959

Monthly list of East European Accessions (MEAI) LC. Col. 9, no. 1 January 1960

Uncl.

SINKA, Sandor, dr.

On the modification of the Truck Tariffs and on its coordination with
the Automotive Shipping Regulations. Kozleked kozl 17 no.51:881-883
D '61.

SINKA, Sandor, dr.

Rules for the transportation activity of collective farms and
machine-tractor stations. Kozleked kozl 18 no.41:746-748 14 0
'62.

PHASE I BOOK EXPLOTTATION

BOV/5556

81-

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (New [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Moscow, Metallurgizdat, 1961. 439 p. (Series: Trudy Mezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Moskovskiy institut stali imeni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavovskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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New [Developments] in the Theory (Cont.)

SOV/5556

COVERAGE: The collection contains papers reviewing the development of open-hearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, R.P. Nam, V.I. Yavovskiy, G.N. Oyka and Ye. V. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets (Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin (Ural Polytechnic Institute); I.I. Fomin (the Moscow "Serp i molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute).

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New [Developments] in the Theory (Cont.)

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and M.I. Beylinov (Night School of the Dneprodzerzhinsk Metallurgical Institute).
References follow some of the articles. There are 268 references, mostly Soviet.

TABLE OF CONTENTS:

Foreword

5

Yavovskiy, V. I. [Moskovskiy institut stali - Moscow Steel Institute].
Principal Trends in the Development of Scientific Research in Steel
Manufacturing

7

Filippov, S. I. [Professor, Doctor of Technical Sciences, Moscow Steel
Institute]. Regularity Patterns of the Kinetics of Carbon Oxidation
in Metals With Low Carbon Content

15

[V. I. Antonenko participated in the experiments]

Levin, S. L. [Professor, Doctor of Technical Sciences, Dnepropetrovskiy
metallurgicheskiy institut - Dnepropetrovsk Metallurgical Institute].

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New [Developments] in the Theory (Cont.)

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2c

Kapustin, Ye. A. [Docent, Candidate of Technical Sciences, Zhdanov Metallurgical Institute]. Aerodynamic Properties of Fuel Gases and Their Flow in the Combustion Chamber of an Open-Hearth Furnace

271

Kudrin, V.A. [Docent, Candidate of Technical Sciences], G.N. Oyks, O.D. Petrenko, A.A. Yudson, Yu. M. Nechkin, B.P. Nam, [Engineers], I.I. Ansheles [Docent, Candidate of Technical Sciences], R.M. Ivanov [Candidate of Technical Sciences], and V.P. Adrianova [Engineer]. Special Features of Making High-Quality Steel in Natural-Gas-Fired Open-Hearth Furnaces

280

Butakov, D.K. [Docent], L.M. Mel'nikov [Engineer], A.M. Lirman, V.D. Budenny, P.P. Babich, and A.I. Sinkovich [Ural Polytechnic Institute, Zavod im. Ordzhonikidze Chelyabinskogo sovnarkhoza - Plant imeni Ordzhonikidze of the Chelyabinsk Sovnarkhoz]. Special Features of Making Steel in Open-Hearth Furnaces With Magnesite-Chromite [Brick] Roofs

290

Kudrin, V.A., Yu. M. Nechkin, Ye. I. Tyurin [Candidate of Technical Sciences], and Ye. V. Abrosimov [Moscow Steel Institute]. The Acid Open-Hearth Process

299

Card 10/14

SOV/124-58-3-3585

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 138 (USSR)

AUTHORS: Sin'kevich, A. L., Shil'krut, D. I.

TITLE: The Modulus of Elasticity of European Beech Wood (Modul' uprugosti drevesiny yevropeyskogo buka)

PERIODICAL: Nauchn. tr. L'vovsk. lesotekhn. in-t, 1957, Vol 3, pp 116-129

ABSTRACT: Bibliography entry

Card 1/1

MATVEYEV-MOTIN, Aleksey Stepanovich[deceased]; ALEKSEYEV, Ivan
Alekseyevich; SIN'KEVICH, A.L., red.; STEPANOVA, N.D.,
red.izd-va; AKOPOVA, V.M., tekhn. red.

[Hidden defects in timber and methods of their identifica-
tion] Skrytye poroki drevesiny i metody ikh raspoznavaniia.
Izd.3., rasshir. i dop. Moskva, Goslesbumizdat, 1963. 207 p.
(MIRA 17:3)

KAGAN, D.F.; GUSEV, G.G.; SINKEVICH, K.V.

Analysis of the elements of joints of steel pipe lined with vinyl
plastics and polyethylene. Sbor. trud. NIIST no.12:101-116 '62.
(MIRA 16:3)

(Pipe joints) (Pipe, Steel) (Plastics)

POPOV, Leonid Vasil'yevich; SIN'KEVICH, Mikhail Stepanovich; SHUBIN,
Vladimir Ivanovich; PANKRASHOV, A.P., red.; POD"EL'SKAYA, K.M.,
tekhn. red.

[Reforestation by seeding in cutover areas] Posev lesa na vyrub-
kakh. Petrozavodsk, Gos. izd-vo Karel'skoi ASSR, 1961. 108 p.
(MIRA 15:2)

(Reforestation)

SIN'KEVICH, M.S.; KABANOV, V.V.

Results obtained from furthering regeneration of forests in clear-cut areas of Karelia. Trudy Kar. **fil.** AN SSSR no.25:67-74 '61.
(MIRA 14:9)

(Karelia--Reforestation)

SIN'KEVICH, M.S.

Cultivation practices in forest plantations of Karelia. Trudy
Kar. fil. AN SSSR no.25:108-118 '61. (MIRA 14:9)
(Karelia--Afforestation)

ACC NR: AT7004461

SOURCE CODE: UR/2834/66/051/001/0028/0037

AUTHOR: Sin'kevich, N. A.

ORG: none

TITLE: The reliability of controlling mine pressure

SOURCE: Leningrad. Gornyy institut. Zapiski, v. 51, no. 1, 1966, 28-37

TOPIC TAGS: mining engineering, reliability, stress analysis, structural engineering, statistic analysis, statistic mechanics

ABSTRACT: A statistical analysis is made of the reliability of roof braces in mine excavations. Two distinctions are made in the types of problems considered: The first problem is to find the relative number of support columns required to withstand a longitudinal loading for a period of time τ_n , where τ_n is given by

$$\tau_n = A \exp \left(-\alpha \frac{F_{cp}}{F_n} \Phi \right),$$

$$\ln \frac{A}{\tau_n} = \alpha \frac{F_{cp}}{F_n} \Phi,$$

$$F_n < F_{cp} \Phi \frac{1}{\ln A - \ln \tau_n};$$

here A is a coefficient denoting the time to failure of the specimen in the absence

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UDC: 622.834.2

ACC NR: AT7004461

of an external load; α - a coefficient for the rate of strength loss; ϕ - compressive stress under constant load; F is a random variable--the short-term strength of the specimen, and F_{cp} is the mean of F . The second problem is similar to the first, but complicated by the fact that time-varying pressures are considered. The analyses showed that: 1) the time factor is significant in establishing the brace reliability, especially in circumstances with growing pressures on the roof-to-brace contacts; 2) the magnitude of thrust has a pronounced effect upon the reliability of hydraulic braces of constant pressure; 3) in a quantitative evaluation of brace reliability, one must account for the deviation of the load from its mean value; 4) the nonreliability of a brace in the time span of brace work to restoration may be considered to be without large deviation; 5) for a normally distributed load in a problem of the second type, the reliability may be computed for the mean value of the load. Orig. art. has: 14 equations and 6 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 003

Card 2/2

ACC NR: AT7004469

SOURCE CODE: UR/2834/66/051/001/0111/0116

AUTHOR: Sin'kevich, N. A.

ORG: none

TITLE: Determining the long-term strength of rocks with the aid of short-term testing

SOURCE: Leningrad. Gornyy institut. Zapiski, v. 51, no. 1, 1966, 111-116

TOPIC TAGS: stress analysis, material deformation, material failure, test method, mining engineering

ABSTRACT: The author presents the basis of an abbreviated test method for determining the long-term strength of rocks and certain other structural materials. The recommended method affords the possibility of establishing the necessary characteristics within a time span ranging from several hours to several days; with high-precision test equipment, the test time may even be shortened to as little as 1--2 hours. The interrelationship between compressive stress σ in a material and the time-to-failure τ is ordinarily expressed through the exponential equation

$$\tau = A \exp(-\alpha \sigma),$$

where A is a coefficient depending upon the strength characteristics of the material, characteristic of the time until failure of the specimen without external loading, and α is a coefficient relating the rate of strength loss of the specimen, depending on

Card 1/2

UDC: 622.831

ACC NR: AT7004469

the material's physico-mechanical properties in cm^2/kg . The author proposes that the loss of strength in a specimen stressed to failure is best expressed by the relationships

$$\sum_{i=1}^n \frac{\Delta \tau}{A \exp(-\alpha \sigma_i)} = 1, \quad \int_0^{\tau_n} \frac{d\tau}{A \exp(-ab\tau)} = 1,$$

$$A = \int_0^{\tau_n} \exp(ab\tau) d\tau, \quad A = \frac{1}{ab} [\exp(ab\tau) - 1],$$

where the successive time intervals $\Delta \tau$ are equal and sufficiently small, and $\sigma = b\tau$. The unknown coefficients A and α may be found from solving the system of equations

$$A = \frac{1}{ab_1} [\exp(ab_1\tau_{1n}) - 1],$$

$$A = \frac{1}{ab_2} [\exp(ab_2\tau_{2n}) - 1],$$

with data obtained from two (or more) tests, where b_1 and τ_{1n} are the stress rate and the mean time-to-failure of specimens in the i^{th} test. Examples of the implementation of the test method are given, using test data from previous work. Orig. art. has: 9 equations and 4 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 009/ OTH REF: 003

Card 2/2

PYATKIN, A.M., kand.tekhn.nauk; SIN'KEVICH, N.A., inzh.

Determination of the number of blocks in working strata of steep
seams. Ugol' Ukr. 7 no.6:9-11 Je '63. (MIRA 16:8)

... G.I., ... in. nauk; KOSLOV, B.A., veterin. vrach; KAYKOV, M.L.,
veterin. kollektor; SIFNEV, N.K., veterin. vrach; GOLUBITSKAYA, S.B.,
student; BOREYCHENKO, V.A., student; SINKEVICH, U.F., student; SHUMREY,
M.F., student

Results of testing phenothiazine against warble fly infestation of
cattle. Veterinariya 38 no.2:88-92 F '61.

(MIRA 18:1)

1. Nauchno-issledovatel'skiy veterinarnyy institut (for
Zotov). 2. Mashkiy sel'skokhozyaystvennyy tekhnikum (for Zotov).
3. Tukhovichskiy veterinarnyy uchastok, Kholm'skogo rayona, Novgo-
rodskoy oblasti (for Kozlov, Baykov). 4. Volkovskiy veterinarnyy
tekhnikum (for Slepnev, Golubitskaya, Boreychenko, Sinkevich,
Shumrey).

GUSAREV, V.F.; SINKEVICH, V.F.

Choice of the methodology of suturing the duodenal stump in resection of the stomach. Khirurgiia 40 no.9:55-60 S '64
(MIRA 18:2)

1. 2-ya kafedra khirurgii (zav. - prof. Kh.F. Kaplan) Zaporozhskogo instituta usovershenstvovaniya vrachev.

GRATI, V.P.; SINKEVICH, Z.A.; KLESHCH, F.I.

Humus content and composition of individual mechanical fractions
in soils of Moldavia. Pochvovedenie no.1C:72-81 O '65.
(MIRA 18:11)

1. Moldavskiy nauchno-issledovatel'skiy institut pochvovedeniya
i agrokhimii imeni Dima.

SINKEVICH, Z.I.

Certain disorders of correlation of the first and second signal systems
in chronic alcoholism. Zh. vysshei nerv. deiat. Pavlova 1 no.4:608-616
July-Aug 1951. (GLML 23:2)

1. Department of the Pathophysiology of Higher Nervous Activity, Institute
of Higher Nervous Activity, Academy of Sciences USSR.

SINKEVICH, Z.L.;STREL'CHUK, I.V.

One of many deviations from the Pavlovian theory in the higher nervous function test. Zh. vysshei nerv. deiat. Pavlova 1 no.4:632-639 July-Aug 1951. (CML 23:2)

Парлов, Иван Петрович; 1849-1936.

Парлов, Иван Петрович, 1849-1936

"Парлов's Wednesday's", Reviewed by E. L. Sinkovich, I. V. Strel'chuk., Izv. vps. nerv. dist., 1, no. 5, 1951.

Monthly list of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

SINKEVICH, Zinaida Lukinichna

"On Interaction of First and Second Cortical Signal Systems During
Exhaustion" ZVND, II, #5, pp. 640-52, 1952

Lab of Pathophysiology and Therapy of Higher Nervous Activity of Man

SINKEVICH, Z.I.

Correlation between the first and second cortical signal system in developing on the same stimulator of conditioned inhibitor and of conditioned release of inhibition. Zh. vysshei nerv. deiat. 2 no.6: 640-652 Sept-Oct 1952. (CIML 23:4)

1. Laboratory of the Pathophysiology and Therapy of Higher Nervous Activity in Man of the Institute of Higher Nervous Activity of the Academy of Sciences USSR.

SINKEVICH, Z. I.

Dissertation: "Experimental Investigation of Conditioned Disinhibition." Cand
Med Sci, Inst of Higher Nervous Activity, Acad Sci USSR, Moscow, Oct-Dec 53.
(Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec. 1954

SINKOVICH, Z.L.

Investigation of conditioned disinhibition in schizophrenia. Trudy
Inst.vys.nerv.dielat. Ser.patofiziol. 1:13-25 '55. (MIRA 9:8)
(SCHIZOPHRENIA) (INHIBITION)

SINKOVICH, Z. L.

8894. Disturbances of suberous dynamics in chronic alcoholism.
Z. Sinkovich *Trud. Inst. vish. nerv. Dist. Akad. Nauk, S.S.S.R.*
1958, 1, 170-181; *Referat Zh. Biol.*, 1958, Abstr. No. 79258. — A
study of the higher nervous activity of 38 patients with chronic
alcoholism was carried out by the method of speech reinforcement.

Laxity of the switching function and also reduction of efficiency of
suberous cells, with rapidly developed appearance of limited inhibition
(depression and retardation of conditioned reactions, to the
end of the experiment, which was discontinued) testified to the
appearance of powerful inhibition in the cerebral cortex of patients
with chronic alcoholism often the acquired characteristic of an
intermediate state between the stimulated and the inhibited phase
phenomena. The phase states in the cerebral cortex of patients
with chronic alcoholism are explained on the basis of their increased
inhibition easily being developed by the limited inhibition shown
by protective inhibition. The usual reactions in accumulative
inhibition. Dynamic transmission of the phase phenomena which
take place at the first signal system may be sufficient, insufficient,
distorted, and finally may be completely absent. The reflection of
the phase relationship from the first signal system to the second.

are together with it, and correct indication of some signals by means of...
in the majority of patients with chronic alcoholism, revealed dis-
turbances. (Russian) F. McKechmie

1983. Disturbances of communications of the nervous and
secondary (subcortical) signal systems in chronic alcoholism. Z. L.
Sinkovich. Trud. Inst. vish. nerv. Deiat. Akad. Nauk, S.S.S.R.,
1955, 1, 182-189; Referat. Zh. Biol., 1956, Abstr. No. 79287.
Forty patients with chronic alcoholism and 10 healthy adults
control group were investigated. A study of the higher nervous
activity was carried out by the method of speech reinforcement.
In the patients first conditions of speech reinforcement were produced
by the flash of a red light. If, after the flash of a red light signal,
there was an indication of a conditioned reflex, the word "red" was
repeated to. After having formed and strengthened the
conditional reaction to the flash of a red light, the stimulation was
replaced by the word "red" accompanied by a positive reinforce-
ment. In patients with chronic alcoholism there is in many cases
a sudden difficulty in producing conditioned reactions on stimula-
tion, and producing the definite word which was earlier the subject
of the conditioned reaction. This effect was not displayed in
the control. On the basis of the effect indicated in the patients
has the pathology of intensification of elective negative induction.
In those cases where everything is successful with the patients
although with difficulty in forming the conditioned reaction on
speech stimulation, and in the word stimulation related to it,
negative induction. (Russian) F. McKechmie

STREL'CHUK, I.V.; SINKOVICH, Z.L.

Treating chronic alcoholics by developing a negative conditioned
reaction to alcohol in a state of hypnosis combined with thera-
peutical sleep. Trudy Inst.vys.nerv.deiat. Ser.patofiziol. 1:
289-297 '55. (MIRA 9:8)

(ALCOHOLISM--TREATMENT)
(SLEEP--THERAPEUTIC USE)

(HYPNOTISM--THERAPEUTIC USE)

SINKEVICH, Z.L.

V-12

USSR/Human and Animal Physiology - Nervous System.

Abs Jour : Ref Zhur - Biol., No 1, 1958, 4485

Author : Z.L. Sinkevich

Inst : Institute of the Higher Nervous Activity, Academy of Sciences USSR

Title : Elaboration of Conditioned Inhibition and Disinhibition to the Same Stimulus in Neurotic Children.

Orig Pub : Ser. patofiziol., 1956, 2, 229-237

Abstract : The same supplementary agent (bell) was used to develop conditioned inhibitive (CI) reflex to light stimulus and conditioned disinhibition (CD) of differentiation in 14 children with neurotic features as well as in 10 healthy children (age group: 10 to 14). CD developed in normal children just as easily as CI and even appeared during the initial test. Nervous children never developed CD

Card 1/2

SINKEVICH, Z.L.

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Some peculiarities of cortical influences in the holding of breath
by patients with chronic alcoholism. Trudy Inst. vys. nerv. deiat.
Ser. patofiziol. 7:125-132 '60. (MIRA 14:4)
(RESPIRATION), (CONDITIONED RESPONSE) (ALCOHOLISM)

SINKEVICH, Z.L.

New materials on the problem of change in the elective relation in
the interaction of spinal systems in patients with chronic alcoholism.
Trudy Inst. vys. nerv. deiat. Ser. patofiziol. 7:133-144 '60.

(MIRA 14:4)

(ALCOHOLISM) (CONDITIONED RESPONSE) (NERVOUS SYSTEM)

SINKEVICHUS, A.F., inzh.

Auxiliary signal generator for television relay stations.
Vest. sviazi no.1:9-11 Ja '65. (MIRA 18:4)

SINKEVICHUS, Ch.A. [Sinkevicius, C.A.]

~~Retropublic~~ Retropublic extravesical adenomectomy of the prostate. Urologia 21
no.2:6-14 Ap-Je '56. (MLBA 9:12)

1. Iz Fakul'tetskoy khirurgicheskoy kliniki (sav. - dotsent I.I.
Yarzhemskas) Respublikanskoy Leningradskoy klinicheskoy bol'nitsy
(glavn. vrach. P.K.Yashinskas)
(PROSTATE HYPERTROPHY, surgery,
retropublic extravesical (Rus))

SINKEVICHUS, Ch. A. [Sinkevicius, Č.A.]

Infected hydronephrosis of a congenitally single kidney. Urologia,
23 no.1:65-66 Ja-F '58. (MIRA 11:3)

1. Is fakul'tetskoy khirurgicheskoy kliniki (zav.-dotsent I.I.
Yarzhemskas) Kaunasskogo meditsinskogo instituta (dir.-prof. S.I.
Yanushkevichus)

(KIDNEYS, abnorm.

single kidney with infect. hydronephrosis)

(HYDRONEPHROSIS

of congen. single kidney)

SINKEVICHUS, Ch. A. Cand Med Sci -- (diss) "Retropubic extravesical
adenomectomy of the prostate gland." Kaunas, 1959. 29 pp with illustrations
(Min of Health Lithuanian SSR. Kaunas State Med Inst), 150 copies
(KL, 48-59, 117)

-55-

SINKEVICIUS, Ch. A.

SINKEVICIUS, C., med. m. kand.; TULABA, A.

Tumors of the urinary bladder and their treatment. Sveik. apsaug. 7
no.4(76):15-21 Ap '62.

1. Respublikine Kauno klinine ligonine. Vyr. gyd.-med. m. kand. P.
Jasinskas. Urologinio skyriaus vedejas - A. Tulaba.

(BLADDER neopl)

SINKEVICHUS, Ch.A. [Sinkevicius, C.A.], kand.med.nauk

Nephrolithiasis; according to data of the Republic Clinical
Hospital in Kaunas for a ten year period. Sov.med. 26 no.8:
123-126 Ag '62. (MIRA 15:10)

1. Iz kafedry fakul'tetskoy khirurgii lechebnogo fakul'teta
Kaunasskogo meditsinskogo instituta (rektor - chlen-korrespondent
AMN SSSR prof. Z.I.Yanushkevichus).
(LITHUANIA--CALCULI, URINARY)

SINKEVICHUS, Ch.A. [Sinkevicius, C.A.], kand.med.nauk.

Posteropubic extravesical adenomectomy by the A.T.Lidskii
technique. Vest.khir.No.1:79-83'63. (MIRA 16-7)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (zav.-dotsent I.I.
Yarzhemskas)lechebnogo fakul'teta Kaunasskogo meditsinskogo in-
stituta (dir.prof. Z.I.Yanushkevichus [Januskevicius,Z.]).
(PROSTATE GLAND—TUMORS) (PROSTATE GLAND—SURGERY)

SINKEVICHUS, Ch.A. [Sinkevicius, C.]; TULABA, A.A.

Bladder tumors and their treatment. Urologia 28 no.3:45-48
'63 (MIRA 17:2)

1. Iz fakul'tetskoy khirurgicheskoy kliniki lechebnogo fakul'teta Kaunasskogo meditsinskogo instituta.

SINKEVICIUS, C., med. m. kand.

A case of combined injury of the urinary bladder, rectum and ileum.
Sveik. apsaug. no.12:23-25 '62.

1. Kauno Valst. medicinos institutas. Rektorius -- prof. Z. Januskevicius.
(BLADDER DISEASES) (ILEUM) (RECTUM)

SINKHA, A. P. Cand Tech Sci -- "Velocity mass exchange in the presence of surface-active substances." Mos, 1961 (Min of Higher and Secondary Specialized Education RSFSR. Mos Inst of Chem Machine Building). (KL, 4-61, 200)

-234

L 18949-63 EWT(1)/EWP(q)/EWT(m)/BDS/ES(s)-2 AFFTC/ASD/ESD-3/IJP(C)/

SSD Pt-4 GG/JD

ACCESSION NR: AP3007516

S/0181/63/005/009/2703/2704

AUTHOR: Bogdanov, S. V.; Rassushin, V. A.; Sinkha, D. K. 72
70

TITLE: Relaxation properties of BaTiO_3 single crystals containing
antimony impurities ~1

SOURCE: Fizika tverdogo tela, v. 5, no. 9, 1963, 2703-2704

TOPIC TAGS: barium titanate relaxation property, single crystal
relaxation property, barium titanate single crystal, barium
titanate crystal property, barium titanate crystal, barium
titanate, relaxation property, barium titanate dielectric property

ABSTRACT: The dielectric constant as a function of temperature
was investigated in barium titanate single crystals containing
 Sb_2O_3 impurities. It was found that 1) the single crystals of
barium titanate possess ferroelectric and relaxation properties
for certain antimony impurity concentrations; 2) the introduction

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L 18949-63

ACCESSION NR: AP3007516

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of antimony impurities lowers the Curie point, the effect being well marked at antimony concentrations above 0.01 mol%; and 3) the appearance of a maximum on a curve of dielectric constant versus temperature indicates the presence of relaxation polarization in that temperature region. Dependence of the dielectric constant on temperature was also investigated for temperatures of 120—200C. Orig. art. has: 2 figures.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR, Moscow (Physics Institute, AN SSSR)

SUBMITTED: 06Dec62

DATE ACQ: 14Oct63

ENCL: 00

SUB CODE: PH

NO REF SOV: 001

OTHER: 001

Card 2/2

L 29706-66 EWP(m)/EWT(11) AW

ACC NR: AP6015079 (N)

SOURCE CODE: UR/0020/66/168/001/0047/0050

AUTHOR: Sinkha, S. R. P.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: Exact theory of stationary waves on free surfaces and two fluid interfaces

SOURCE: AN SSSR. Doklady, v. 168, no. 1, 1966, 47-50

TOPIC TAGS: hydrodynamics, wave propagation, velocity distribution, complex function, irrotational flow, fluid surface

ABSTRACT: The existence of finite amplitude stationary waves on the interface of two liquids is investigated. The two liquids consist of a light one of depth h , placed on a heavy liquid of infinite depth where l_1 represents the free surface and l_2 , the interface. The flow is assumed to be irrotational. The complex potential is given by

$$f_h = \varphi_h + i\psi_h,$$

the kinematic conditions by on l_2 $\psi_1 = \psi_2 = 0$; on l_1 $\psi_1 = q (q < 0)$, and the dynamic conditions (pressure-continuity on interface) by

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L 29706-66

ACC NR: AP6015079

$$\overline{gy_1} - 1/2 |W_1|^2 = \text{const} \quad \text{on} \quad l_1;$$

$$g\rho_1 y_1 - 1/2 \rho |W_1|^2 = g\rho_2 y_2 - 1/2 \rho_2 |W_2|^2 + \text{const} \quad \text{on} \quad l_2.$$

The solution consists of determining a function $\omega_1(\zeta_1)$, holomorphic in the circle $\Sigma_1 (1 \leq |\zeta_1| \leq r)$,

and a function $\omega_2(\zeta_2)$ holomorphic inside $\Sigma_2 (|\zeta_2| \leq 1)$,

which satisfy the conditions: on the interface there exists

$$e^{-\tau_1(\sigma_1)} d\sigma_1 = e^{-\tau_2(\sigma_2)} \left\{ \frac{1}{2\pi} \int_0^{2\pi} e^{\tau_2(\sigma_2) - \tau_1(\sigma_1)} d\sigma_1 \right\}^{-1} d\sigma_1,$$

$$\vartheta_1(\sigma_1) = \vartheta_2(\sigma_2),$$

$$(c^2 / c_1^2) m_2 e^{2\tau_2(\sigma_2)} \partial \tau_2(\sigma_2) / \partial \sigma_1 - m_1 e^{2\tau_1(\sigma_1)} \partial \tau_1 / \partial \sigma_1 = p e^{-\tau_1(\sigma_1)} \sin \vartheta_1(\sigma_1)$$

and on the free surface the following holds

$$\partial \tau_1(r, \sigma_1) / \partial \sigma_1 = p e^{-\tau_1(r, \sigma_1)} \sin \vartheta_1(r, \sigma_1),$$

$$\vartheta_A(\sigma_A) + i\tau_A(\sigma_A) = \omega_A(e^{i\sigma_A}), \quad m_1 = \rho_1 / (\rho_2 - \rho_1), \quad m_2 = \rho_2 / (\rho_2 - \rho_1),$$

$$p = g\lambda_1 / 2\pi c_1^3, \quad r = e^{-2\pi g/\lambda_1}.$$

The analysis is carried out in a series expansion, in powers of some parameter μ , for the two cases: case (1), when $\beta = 1$, then

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ACC NR: AP6015075

$$\omega_1^{(0)}(\zeta) = \omega_2^{(0)}(\zeta) = -i\zeta;$$

case (2)

$$\beta = (w + r^{-1}) / (r - r^{-1}), \alpha = m_2 - m_1,$$

$$\omega_1^{(0)}(\zeta) = i\{(1 + \beta)r^{-1}\zeta - r(1 - \beta)\zeta^{-1}\},$$

$$\omega_2^{(0)}(\zeta) = i\{(1 + \beta)r^{-1} + (1 - \beta)r\}\zeta.$$

A numerical calculation is made to show the wave profiles on both the free surface and the interface. This paper was presented by Academician G. I. Petrov on 04 October 1965. Orig. art. has: 25 equations.

SUB CODE: 20/ SUBM DATE: 24Sep65/ ORIG REF: 004/ OTH REF: 002

Card 3/3 CC

SINKHA, Suresh P.

Effect of EDTA on the process of crossingover in various lines
of *Drosophila melanogaster*. Vest. LGU 20 no.9:130-135 '65.
(MIRA 13:6)

SINKIEWICZ, Jerzy

Characteristics of the sanitary and hygienic state of the soil of irrigated fields of the city of Bydgoszcz. Roczn panstw zakl hig 14 no.1:17-25 '63.

1. Laboratory Division of Municipal Hygiene, Voivodeship Sanitary and Epidemiological Station, Bydgoszcz.

L 31751-65 EWT(1)/EWA(h) Feb GG
ACCESSION NR: AP4047516

P/0053/64/000/009/0418/0436

27
24
B

AUTHOR: Sinkiewicz, T.

TITLE: Some switching parameters of semiconductor diodes for digital circuits

SOURCE: Przegląd elektroniki, no. 9, 1964, 418-436

TOPIC TAGS: semiconductor diode⁷⁵, switching parameter, digital circuit, digital computer, computer design, negator circuit, transistor circuit, inverter circuit

ABSTRACT: The paper discusses the transient switching processes in semiconductor diodes which are due to the minority carrier storage in the base. The importance of knowing the switching characteristics of diodes when designing digital circuits is emphasized because of the higher frequency used for such applications. Switching of diodes in the forward and reverse directions is discussed. Parameters of diodes for digital circuits are discussed on an example of two fundamental circuits employing different techniques: a negator working on the principle of Ramey's series-type magnetic amplifier is described; the effect of diode parameters on the characteristics of transistor circuits is examined in connection with an inverter having integrating diode circuits at the input. It is noted that, in comparison

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ACCESSION NR: AP4047516

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with the negator, in the transistor inverter the diodes operate at lower switching currents and voltages and thus the switching transients are of shorter duration. Switching transients in alloy transistors are also discussed. Several circuits used for the measurement of the switching transients in diodes are described and discussed. These circuits were used in the Zaklad Techniki Cyfrowej (Digital techniques department) of the IIM PAN for the design of the fundamental circuits for digital computers. The results of the measurement of the transient parameters of 17 types of point-contact diodes of Polish production are tabulated and discussed. "The author expresses his thanks to Eng. T. Jamkowski and Mgr. Eng. Z. Swiatkowski for valuable comments." Orig. art. has: 18 figures, 20 formulas and 1 table.

ASSOCIATION: Instytut Maszyn Matematycznych (Mathematical machines institute)

SUBMITTED: 17Feb64

ENGL: 00

SUB CODE: EC, DP

NO REF SOV: 001

OTHER: 012

Card 2/2

SINKIEWICZ, Tadeusz

Certain impulse parameters of semiconductor diodes for digital circuits. Przegl elektroniki 5 no.9:418-436 S '64.

1. Institute of Computers, Warsaw.

SINKIN, G. P.

SINKIN, G.P.; IL'NITSKIY, I.I., inzhener, redaktor.

[Vibration damper designed by D.I. Ryzhkov] Vibrogasitel' konstruktsei
D.I. Ryzhkova. Sverdlovsk, Gos. nauchno-tekhn. izd-vo mashinostroit. i
sudostroit. lit-ry [Uralo-Sibirskoe odt-nie] 1953. 27 p. (MLRA 7:7)
(Vibration) (Cutting machines)

PECHUGIN, Donat Arsent'yevich; SIMKIN, Petr Aleksandrovich; LIDERS, G.V.
kandidat tekhnicheskikh nauk, redaktor; SOROKIN, N.N., inzhener,
redaktor; BOBROVA, Ye.N., tekhnicheskii redaktor.

[Re-laying of track superstructure; practices of track stations]
Rekonstruktsiia verkhnego stroeniia puti; opyt pytevykh mashinnykh
stantsii. Moskva, Gos.transp.shel-dor.izd-vo, 1957. 70 p.

(MIRA 10:4)

(Railroads--Track)